AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1. (Currently Amended) A method of recognizing an image of a nozzle hole, comprising:

picturing a nozzle hole of a liquid droplet ejection head in a state of being filled with a function liquid to thereby perform image recognition thereof,

wherein the nozzle hole is pictured synchronously with application of a driving waveform to the liquid droplet ejection head, the driving waveform causing single-period micromotion of a meniscus surface of the nozzle hole; and

wherein the picturing is only performed at a timing in which the meniscus surface is pulled into an inside of the nozzle hole due to the driving waveform.

- 2. (Cancelled)
- 3. (Original) The method of recognizing an image of a nozzle hole according to claim 1, wherein the picturing is performed by causing a strobe to emit light to the nozzle hole.
- 4. (Original) A method of correcting a position of a liquid droplet ejection head, comprising:

the step of recognizing an image of a position of a nozzle hole of a liquid droplet ejection head by using the method of recognizing an image of a nozzle hole according to claim 1; and

the step of correcting positional data of the liquid droplet ejection head based on a result of recognition in the recognizing step.

5. (Currently Amended) A method of inspecting a nozzle hole comprising: picturing a nozzle hole of a liquid droplet ejection head in a state of being filled with a function liquid to thereby check a presence or absence of a foreign matter adhered thereto,

wherein the nozzle hole is <u>only</u> pictured at a timing when a driving waveform is applied to the liquid droplet ejection head, the driving waveform being such that <u>and</u> a meniscus surface of the nozzle hole is pulled inside.

6. (Original) The method of inspecting a nozzle hole according to claim 5, wherein the liquid droplet ejection head has a plurality of the nozzle heads, the method further comprising:

the step of ejecting, for inspection, a function liquid from all of nozzle holes of the liquid droplet ejection head toward an inspection area;

the step of determining a defective nozzle for determining a nozzle hole with poor ejection, based on a result of ejection in the inspection area,

wherein, after the step of determining the defective nozzle, the nozzle hole with poor ejection is pictured as a nozzle hole to be made an object of inspection, by applying the driving waveform to the liquid droplet ejection head.

7-13. (Cancelled)